

Title (en)  
DETECTION OF TARGET NUCLEIC ACID SEQUENCE BY USING SYNTHETIC NON-NATURAL BASE-BEARING TAG OLIGONUCLEOTIDE

Title (de)  
NACHWEIS EINER ZIELNUKLEINSÄURESEQUENZ UNTER VERWENDUNG EINES SYNTHETISCHEN, EINE NICHTNATÜRLICHE BASE TRAGENDEN MARKEROLIGONUKLEOTIDS

Title (fr)  
DéTECTION D'UNE SéQUENCE D'ACIDE NucléIQUE CIBLE À L'AIDE D'UN OLIGONUCLÉOTIDE MARQUEUR PORTEUR DE BASE NON NATURELLE SYNTHÉTIQUE

Publication  
**EP 4403645 A1 20240724 (EN)**

Application  
**EP 22870362 A 20220916**

Priority  
• KR 20210125068 A 20210917  
• KR 2022013921 W 20220916

Abstract (en)  
The present disclosure relates to detection of a target nucleic acid sequence using a tag oligonucleotide comprising a synthetic unnatural base. The protocol of the present disclosure increases a target signal by improving the binding affinity or specificity of the hybridization between the target-dependent fragment and the fragment-hybridizing oligonucleotide, and thus it is possible to detect the target sequences with more improved sensitivity.

IPC 8 full level  
**C12Q 1/6818** (2018.01)

CPC (source: EP KR)  
**C12Q 1/6818** (2013.01 - KR); **C12Q 1/6823** (2013.01 - EP); **C12Q 2525/179** (2013.01 - KR)

C-Set (source: EP)  
1. **C12Q 1/6823** + **C12Q 2525/117** + **C12Q 2525/161** + **C12Q 2561/101** + **C12Q 2565/1015**  
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Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
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**EP 22870362 A 20220916**; KR 2022013921 W 20220916; KR 20247008859 A 20220916